



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
BLDG 24 STEERING LAB
Machine Id
10357809 1ST HPU
Component
Hydraulic System
Fluid
MOBIL DTE 25 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0859311	WCI2264806	---
Sample Date		Client Info		16 Jan 2024	11 Mar 2015	---
Machine Age	hrs	Client Info		2340	313	---
Oil Age	hrs	Client Info		2340	313	---
Filter Age	hrs	Client Info		2000	313	---
Oil Changed		Client Info		Filtered	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<1	<1	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>20	2	2	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	1	<1	---
Lead	ppm	ASTM D5185m	>20	0	4	---
Copper	ppm	ASTM D5185m	>20	10	4	---
Tin	ppm	ASTM D5185m	>20	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

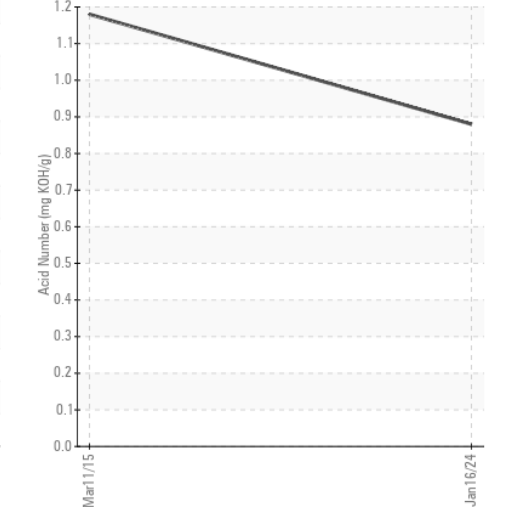
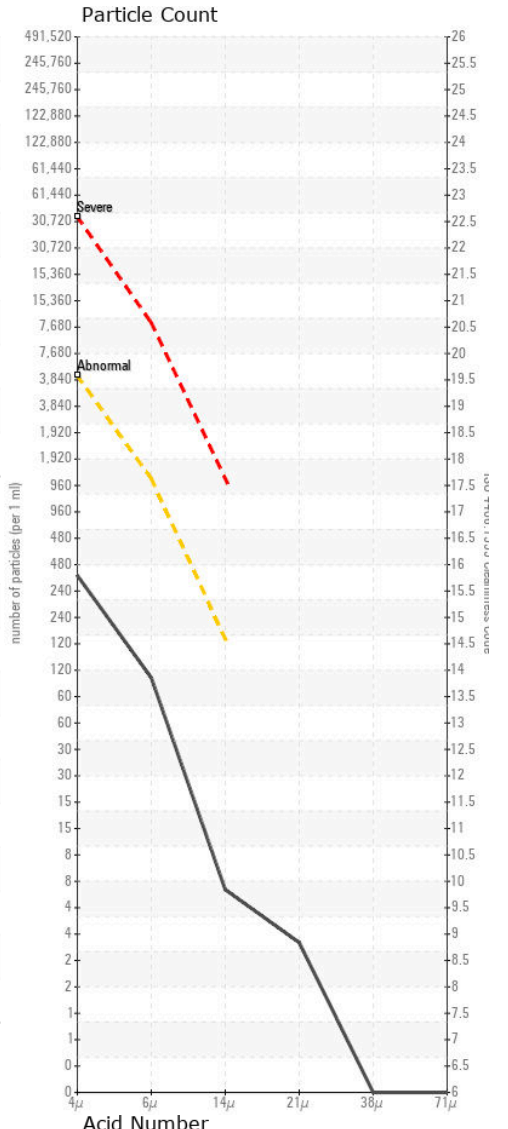
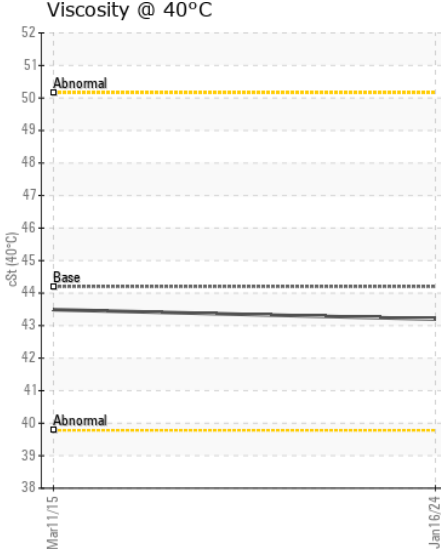
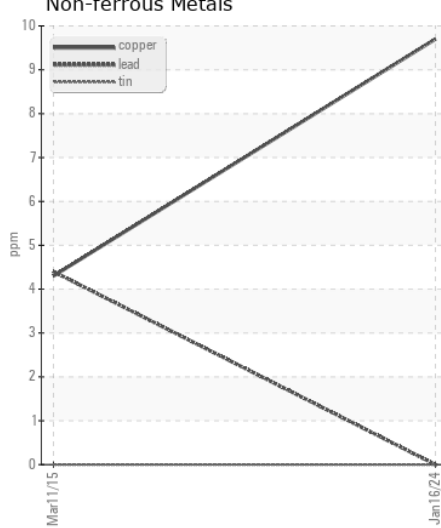
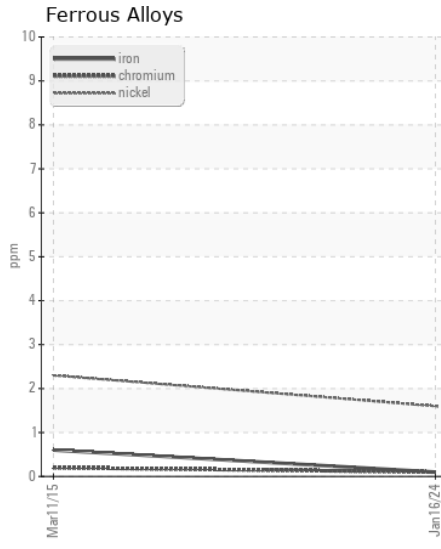
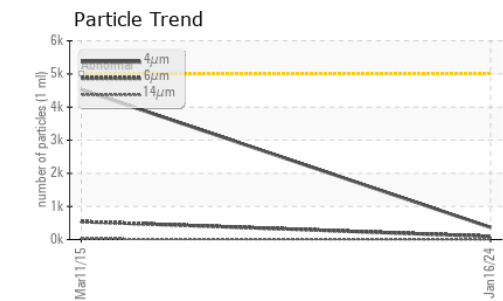
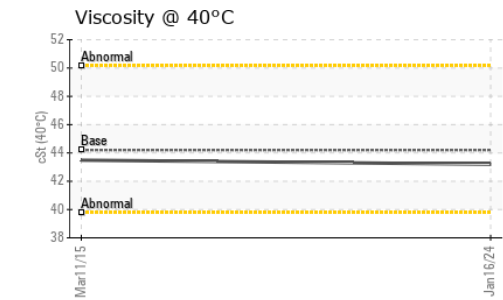
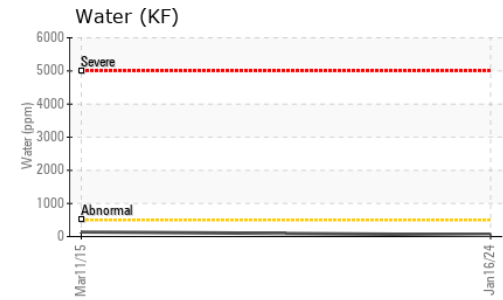
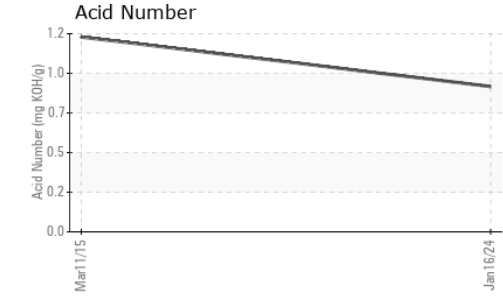
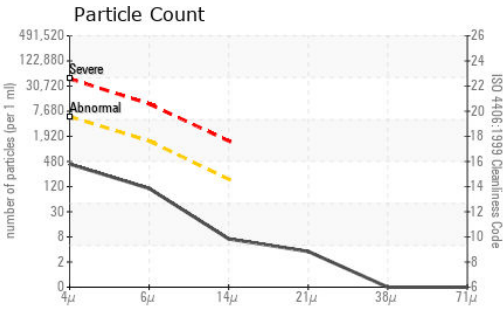
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>15	<1	2	---
Potassium	ppm	ASTM D5185m	>20	1	1	---
Water	%	ASTM D6304	>0.05	0.004	0.014	---
ppm Water	ppm	ASTM D6304	>500	49	140	---
Particles >4µm		ASTM D7647	>5000	366	4527	---
Particles >6µm		ASTM D7647	>1300	96	542	---
Particles >14µm		ASTM D7647	>160	6	19	---
Particles >21µm		ASTM D7647	>40	3	5	---
Particles >38µm		ASTM D7647	>10	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/10	19/16/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	2	---
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		0	2	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		2	0	---
Calcium	ppm	ASTM D5185m		115	144	---
Phosphorus	ppm	ASTM D5185m		442	495	---
Zinc	ppm	ASTM D5185m		593	796	---
Sulfur	ppm	ASTM D5185m		5711	6219	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.88	1.18	---
Visc @ 40°C	cSt	ASTM D445	44.2	43.2	43.49	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0859311 **Received** : 14 Feb 2024
Lab Number : 06089555 **Tested** : 15 Feb 2024
Unique Number : 10877000 **Diagnosed** : 15 Feb 2024 - Wes Davis
Test Package : PLANT

GENERAL MOTORS - MILFORD PROVING GROUND
 3300 GENERAL MOTORS RD, BUILDING 94
 MILFORD, MI
 US 48380
 Contact: NICHOLAS PALM
 nicholas.palm@gm.com
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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)